# ENGINEERING REPORT COVERING

# REQUEST FOR CONSTRUCTION PERMIT

# ON BEHALF OF RADIO CANTICO NUEVO, INC.

# FOR WNYG(AM) 1440 KILOHERTZ

# MEDFORD, NEW YORK

SEPTEMBER 2011

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SUMMARY

The engineering exhibit of which this statement is part was prepared on behalf of Radio Cantico Nuevo, Inc., hereinafter referred to as "RCN", in support of an application for construction permit to add nighttime operation for WNYG(AM) Medford, New York. RCN is the licensee of WNYG. RCN proposes nighttime power of 196 watts operating with a directional antenna. No other changes, including tower construction or modification of daytime facilities, are proposed.

The proposed location is the presently licensed site of WLIM(AM) Patchogue, New York. Existing diplexing equipment employed for the daytime operation will be modified as necessary to accommodate the nighttime operation.

NIGHTTIME ALLOCATION CONSIDERATIONS

The protected RSS limits of any North American station will not be increased by this proposal. The presently licensed 38 watt night operation of WNYG is a class D facility and a 25% contributor to the night limit of WVEI Worcester, Massachusetts. Section 73.182(q) of the rules, footnote 1, requires that the WNYG night proposal not increase radiation toward WVEI. The proposed 196 watt night operation will continue WNYG's Class D status and not increase the RSS limit to WVEI. The existing WNYG RSS limit to WVEI is 2.37 mv/m and the proposed RSS limit is 2.29 mv/m.

TECHNICAL DATA AND EXHIBITS

A plot of the proposed WNYG nighttime directional antenna pattern is provided in Figure 1 along with a tabulation of horizontal plane radiation. Nighttime vertical plane radiation is tabulated in Table 1.

A map of the city of license service contour for the proposed WNYG nighttime operation is not provided since WNYG will operate as a class D facility. A map of the proposed 1000 mv/m blanketing contour is not provided since the contour of the WNYG daytime contour will encompass the nighttime contour.

ANSI RADIATION GUIDELINES

Since the proposed nighttime power of 196 watts is less than the presently authorized daytime power of 1000 watts, it can be safely concluded the nighttime operation will not produce radiofrequency emissions in excess of the daytime operation values. When the daytime application was submitted, a study of the daytime facility was conducted with respect to standards set forth in FCC Bulletin OST Number 65, Edition 97-01, regarding human exposure to radiofrequency radiation. For reference, the methodology and results of this study were as follows: In order to represent a worst case scenario, the study was based on the maximum diplex power proposed, 1000 watts for the WNYG daytime antenna system, plus 10000 watts for the WLIM daytime antenna system, each radiating from a single tower. The study calculations were based on data provided in Tables 2 and 3 of Supplement A, "Predicted Distances for Compliance with FCC Limits". Based on Tables 2 and 3, a distance of 2.08 meters from the tower would have to be observed to achieve ANSI radiofrequency compliance.

When it is necessary for workers to be within the hazard area near the towers, an appropriate power reduction or temporary cessation of broadcasting will be implemented. Access to the towers will be prevented by a fence with a locked gate. Signs, warning of a radiofrequency hazard, will be conspicuously posted at the site.

DECLARATION

The foregoing was prepared by or under the immediate supervision of Charles A. Hecht of Charles A. Hecht & Associates, Inc., Pittstown, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. All statements herein are true and correct of his knowledge except such statements made on information and belief, and as to those statements, he believes them to be true and correct under the penalty of perjury.

Respectfully submitted,

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